Search result: 1 of 1

(WO/2002/014322) PORPHYRIN COMPOUNDS CONSISTING OF PORPHYRIN RINGS FUSED IN A SINGLE DIRECTION BY THREE BONDS, I.E., ONE MESO-MESO CARBON BOND AND TWO $g(b)-$g(b) CARBON BONDS AND PROCESS FOR THEIR SYNTHESIS

Biblio. Data | Description | Claims | National Phase | Notices | Documents

Latest bibliographic data on file with the International Bureau

Publication Number: WO/2002/014322 **International Application No.:** PCT/JP2001/006832
Publication Date: 21.02.2002 **International Filing Date:** 08.08.2001

Int. Class.: ***C07D 487/22*** (2006.01)

Applicants: **JAPAN SCIENCE AND TECHNOLOGY CORPORATION** [JP/JP]; 1-8, Hon-cho 4-chome Kawaguchi-shi Saitama 332-0012 (JP) *(AT, BE, CA, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IL, IT, LU, MC, NL, PT, SE, TR only).*
OSUKA, Atsuhiro [JP/JP]; 2-4-6, Oginosato Ohtsu-shi Shiga 529-0246 (JP) *(US Only).*

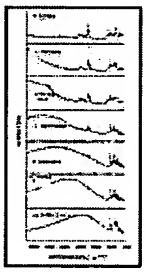
Inventor: **OSUKA, Atsuhiro** [JP/JP]; 2-4-6, Oginosato Ohtsu-shi Shiga 529-0246 (JP).

Agent: **MIYAMOTO, Harumi**; Hougaku Bldg. 7F 19-14, Toranomon 1-chome Minato-ku Tokyo 105-0001 (JP).

Priority Data: 2000-243699 11.08.2000 JP

Title: PORPHYRIN COMPOUNDS CONSISTING OF PORPHYRIN RINGS FUSED IN A SINGLE DIRECTION BY THREE BONDS, I.E., ONE MESO-MESO CARBON BOND AND TWO $g(b)-$g(b) CARBON BONDS AND PROCESS FOR THEIR SYNTHESIS

Abstract: A porphyrin ring-fusion polymer which consists of two or more Zn?II¿-porphyrin rings fused in a single direction and in which any two porphyrin rings adjacent to each other are fused by three covalent bonds, that is, one meso-meso carbon bond (i.e., one bond between meso-position carbon atoms) and two $g(b)-$g(b) carbon bonds (i.e., two bonds between $g(b)-position carbon atoms adjacent to the meso-position carbon atoms); a process for preparing the porphyrin ring-fusion polymer regioselectively by conducting the fusion reaction in an aromatic hydrocarbon solvent in the presence of a quinone and a Lewis acid containing a rare earth element under reflux; and fused-ring porphyrin compounds obtained by subjecting the prophyrin ring-fusion polymer to demetallization or replacement of the Zn atoms by other metal atoms.



Designated States: CA, IL, US.
European Patent Office (EPO) (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT; SE, TR).

Publication Language: Japanese (JA)
Filing Language: Japanese (JA)